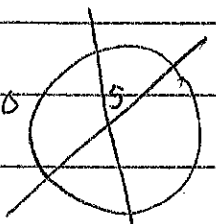
202
10.6
HW p564 – 12-30

12. $m\angle 3 = \frac{1}{2}(100+120)$
$= 110°$

13. $m\angle 4 = \frac{1}{2}(45+75)$
$60°$

14. $= \frac{1}{2}(110+150)$
260
110
150
130

$180 - 130 = 50° = m\angle 5$

15. $5a+3a+4a+6a = 360$
$18a = 360$
$a = 20$
$m\angle 6 = \frac{1}{2}(11a)$
220
$110°$

16. $m\angle 7 = \frac{1}{2}196$
$98°$

17. $m\angle 8 = 90°$

18. $360 - 120 = 240$
$m\angle 9 = \frac{1}{2}240$
$120°$

19. $360 - 260 = 100$
$m\angle 10 = \frac{1}{2}100$
50

20. $65 = \frac{1}{2}(72 + m\overset{\frown}{AC})$
$130 = 72 + m\overset{\frown}{AC}$
$-72$
$58° = m\overset{\frown}{AC}$

21. $x = \frac{1}{2}(90-30)$
$30°$

22. $x = \frac{1}{2}(20-10)$
$5°$

23. $25 = \frac{1}{2}(90-5x)$
$50 = 90-5x$
$-40 = -5x$
$8 = x$

24. $360 - (106+34+160) = 60$
360
$180-(50+120)$

$x = \frac{1}{2}(60-34)$
26
$13°$

25. $x = \frac{1}{2}(7x - 20)$

$2x = 7x - 20$

$-5x = -20$

$x = 4$

26. $x = \frac{1}{2}(10x - 40)$

$2x = 10x - 40$

$-8x = -40$

$x = 5$

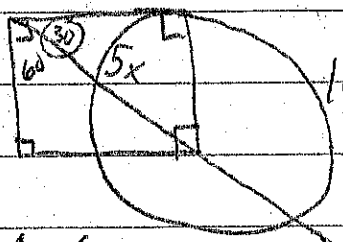
27. $x + 2.5 = \frac{1}{2}(4x + 5 - 50)$

$2x + 5 = 4x - 45$

$50 = 2x$

$25 = x$

28.




$30 = \frac{1}{2}(105 - 5x)$

$60 = 105 - 5x$

$-45 = -5x$

$9 = x$

29. $50 = \frac{1}{2}(360 - x - x)$

$50 = 180 - x$

$-130 = -x$

$130 = x$

30. $30 = \frac{1}{2}(x - (360 - x))$

$x - 360 + x$

$30 = x - 180$

$210^\circ = x$